



***NAVSEA 04***  
***Automatic Identification and***  
***Data Capture (AIDC) Program***  
***Overview,***  
***CDM/ISEA Conference***  
July 13, 2004  
**Jane Zimmerman**  
**SEA 04L514**



# ***Automatic Identification and Data Capture (AIDC) Program Overview***

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- DoD Definition AIT/AIDC
- AIT/AIDC Future Vision
- Goal of AIDC
- DoD AIT/AIDC Organization
- AIT/AIDC History
- Forums Utilized by AIDC Project
- AIDC Initiatives
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- An AIDC Outcome
- DoD Vision for Item Marking
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- Summary



# ***DoD Automatic Information Technology (Automatic Information Data Capture)***

- “ AIT (AIDC) is a suite of technologies that enable the automatic capture of source data, thereby enhancing the ability to identify, track, document and control deploying and redeploying forces, equipment, personnel and sustainment cargo. ”

1997 DoD Logistics AIT CONOPS – November

**AIDC devices can automatically  
identify, locate/track, monitor and  
capture data**



# ***AIT/AIDC FUTURE VISION***

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The Navy vision, as stated in the Navy Logistics AIT Implementation Plan (SEP 2000) is:

Navy AIT/AIDC will provide the proper mix of technologies that allows users to efficiently and effectively capture, aggregate, and transfer data and information, and share the data among AISs by using the optimum technology for a particular application. AIDC will facilitate data collection and flow to all AISs to better achieve asset visibility with minimal personnel intervention, both afloat and ashore. The Navy vision for AIT is applicable throughout the Navy, though the initial emphasis is on the supply and transportation functions.

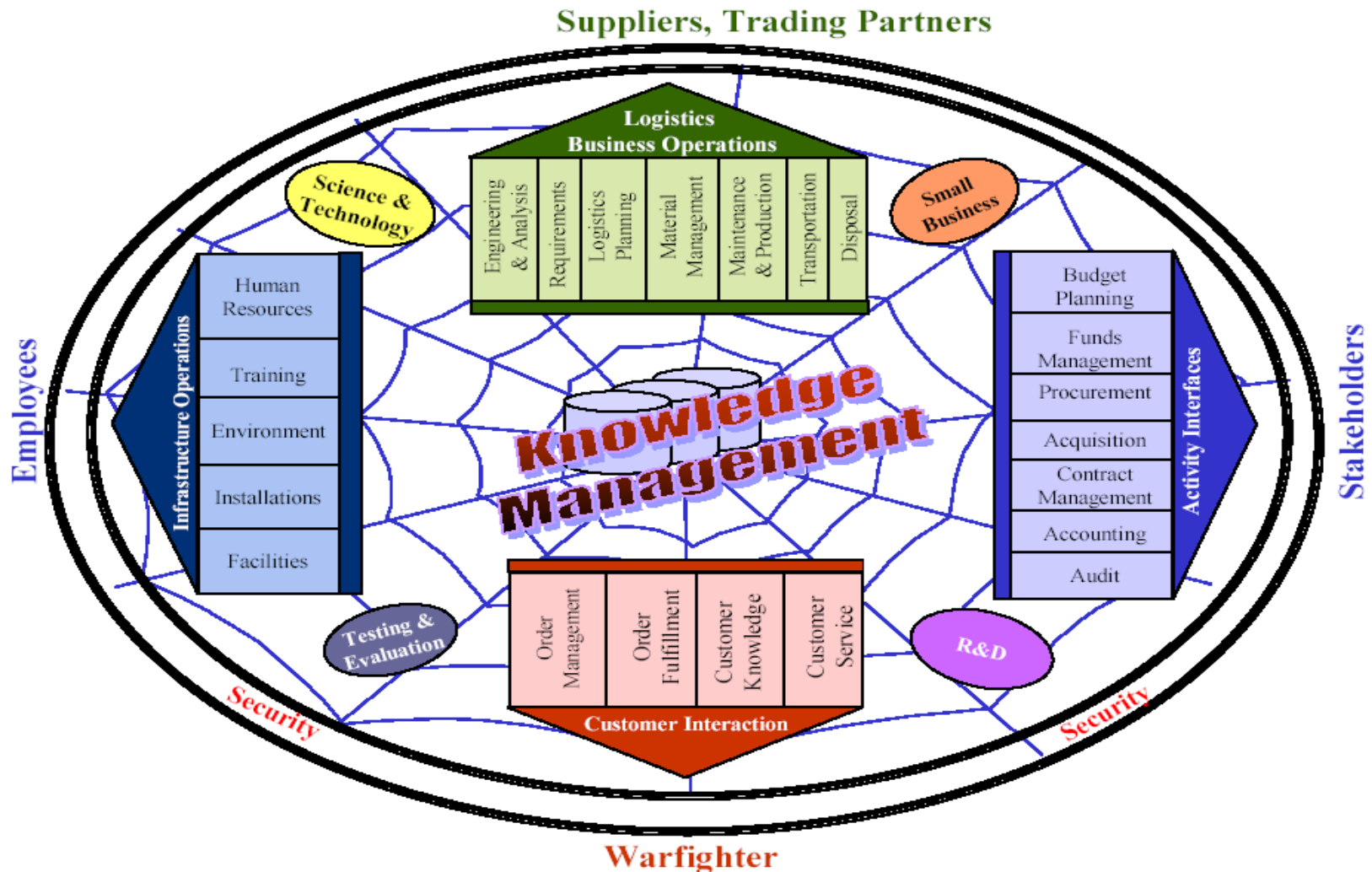
However, we are now in a new phase of AIT/AIDC integration from end to end in our Supply Chain and into our ships and ship systems

# ***The Goal of AIDC***

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# The Objective: Enterprise Wide Information Integration



# ***What AIDC Does for Us***

## **Benefits**

AIT improves Naval logistics and enhances war fighting capability by:

- Improving source data capture
- Speeding data processing and transmission
- Improving data accuracy
- Facilitating decision making
- Supporting material accountability
- Contributing to total asset visibility
- Providing portable data file capability





# ***AIDC and Sea Power 21***

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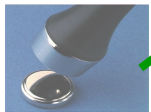
## ***AIDC: Where and How***

**AIDC = Data Accuracy + Timeliness + Efficiency**

**Supply Chain Logistics Functional areas that AIDC supports:**

- **Configuration Management (CM)**
- **Validations**
- **Damage Control/Communications**
- **Financial**
- **Food Service**
- **Hazardous Material (HAZMAT)**
- **Maintenance**
- **Ordnance**
- **Personnel**
- **Safety**
- **Security**
- **Ship Service**
- **Supply Management**
- **Transportation**









# ***NAVSEA AIT/AIDC History***

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- 1980 to Present
  - NAVSEA Technical Centers have routinely supported Navy AIT initiatives on a fee for service basis.
  - No central Headquarters coordination.
- FY01
  - SEA 04L5 recognized need for more central management of AIT/AIDC and established AIDC Project responsibilities.
  - Assumed voting member role on the Navy AIT Steering Group.
- FY02
  - NAVSEA 04L5 establish NAVSEA AIDC Steering Group to indoctrinate membership in AIDC policies and technical benefits.
  - Core team established to expedite the development of a NAVSEA AIDC corporate enterprise strategy.
- FY03
  - Established AIDC page to NAVSEA Configuration Management web site.
  - Commenced conducting coordinated pilot AIDC projects.
- FY04
  - Drafting NAVSEA AIDC policy guidance document.
  - e-PMA Phase I development completed.
  - MACHALT Kitting pilot project completed.



# ***NAVSEA Forums Utilized by AIDC Project***

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- AIDC Steering Group (and Core Group)
  - Unique Identifier (UID) and Electronic Product Code (EPC) Indoctrination
  - New Technology Insertion
  - Configuration Management
- Navy AIT Steering Group
- Serial Number Tracking Office
- DDX AIT Working Group
- CVN (X) and NAVSUP Summits
- Navy Standards Packaging Board
- Technical Center AIDC projects meetings
  - (e.g., NSWC IH, Port Hueneme, Carderock, and Crane)



# ***NAVSEA AIDC Project Office Coordinated Initiatives***

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- **Completed:**

- MACHALT Kitting Pilot
- Electronic Portable Maintenance Assistant (ePMA)

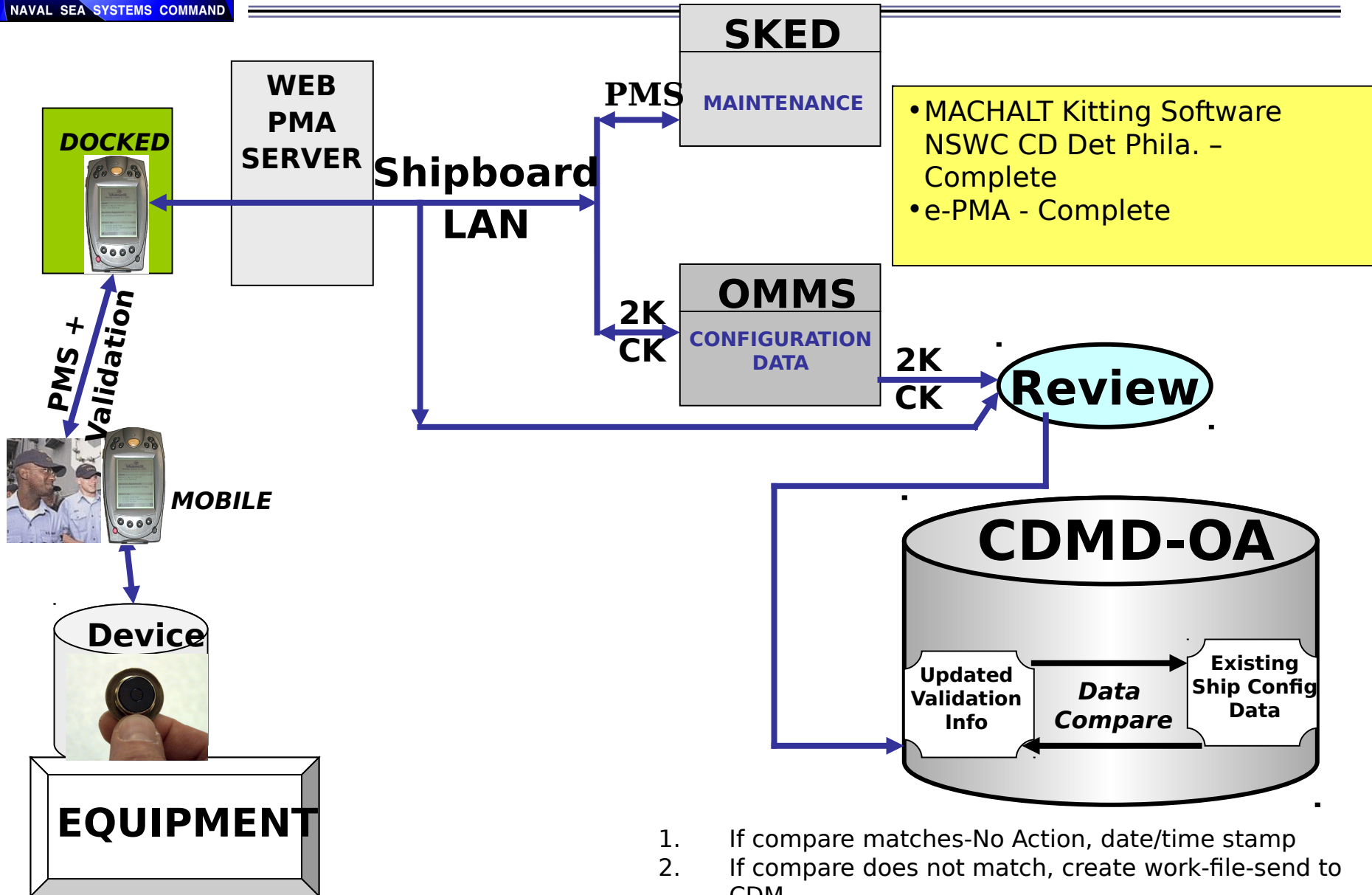
- **Underway:**

- Configuration Management - Serial Number Tracking
  - Validation Pilot – Northrop Grumman Ships Systems
- Training Activities Configuration Tracking
- Smart Stores

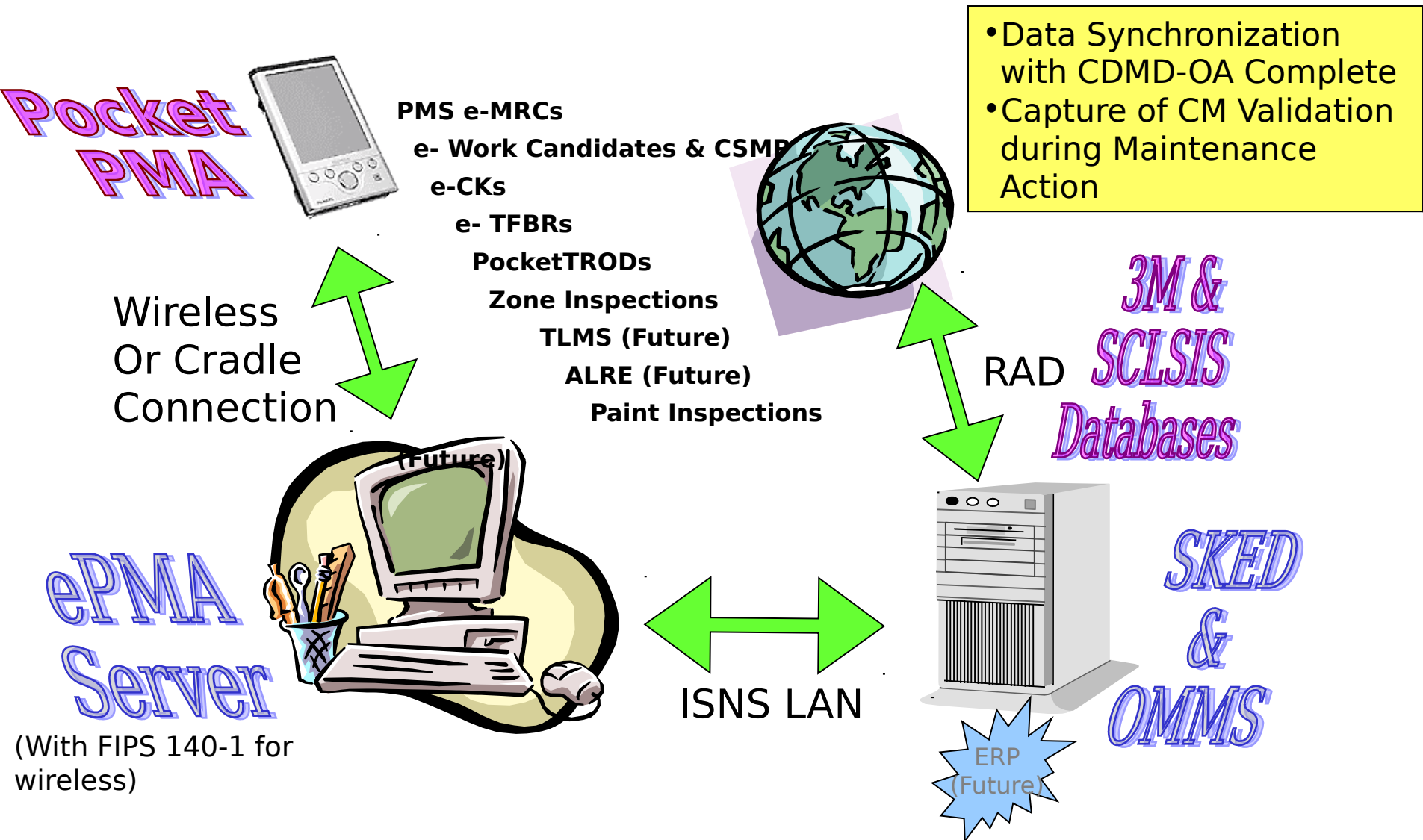
- **FY 04 Planned:**

- Naval Shipyard / Maintenance Depot
- DDX Bleed Air Valve Tracking
  - Project Proposal Under Review
- HM&E Material Management
  - Project Proposal Under Development

# AIDC CM and SNT MACHALT and CMB Pilots

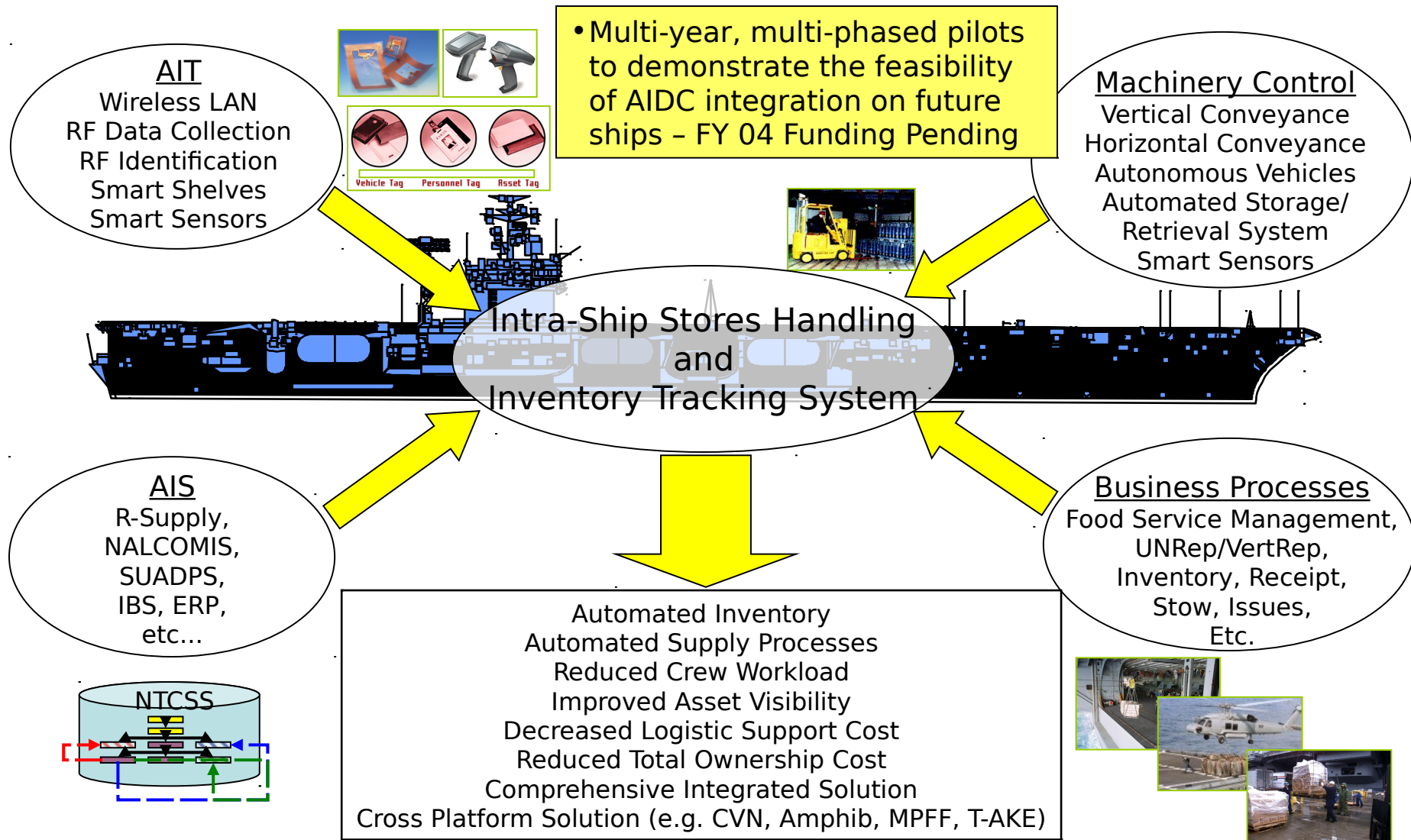


# Electronic Maintenance Assistant (ePMA)





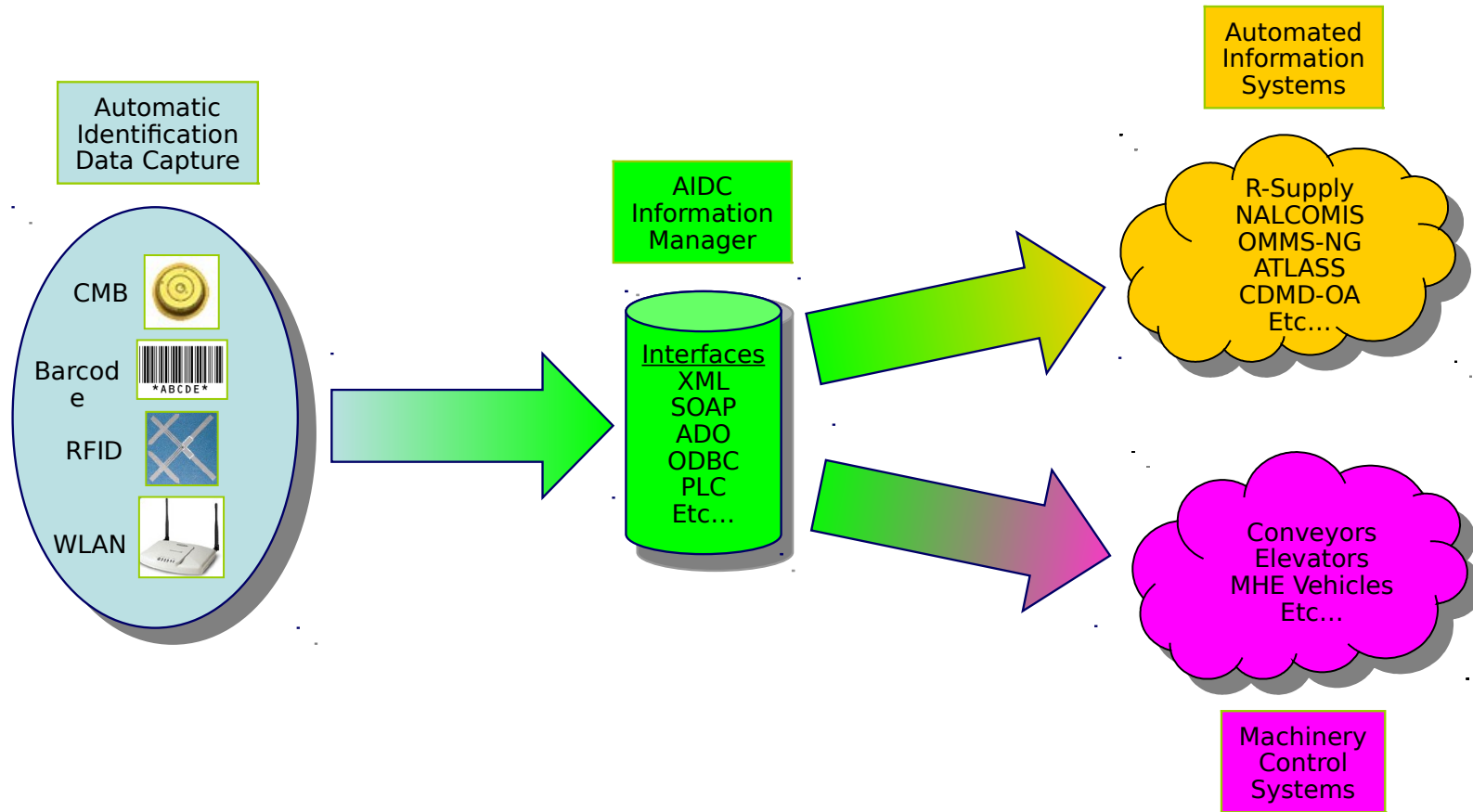
# Smart Stores Project Concept





# Smart Stores

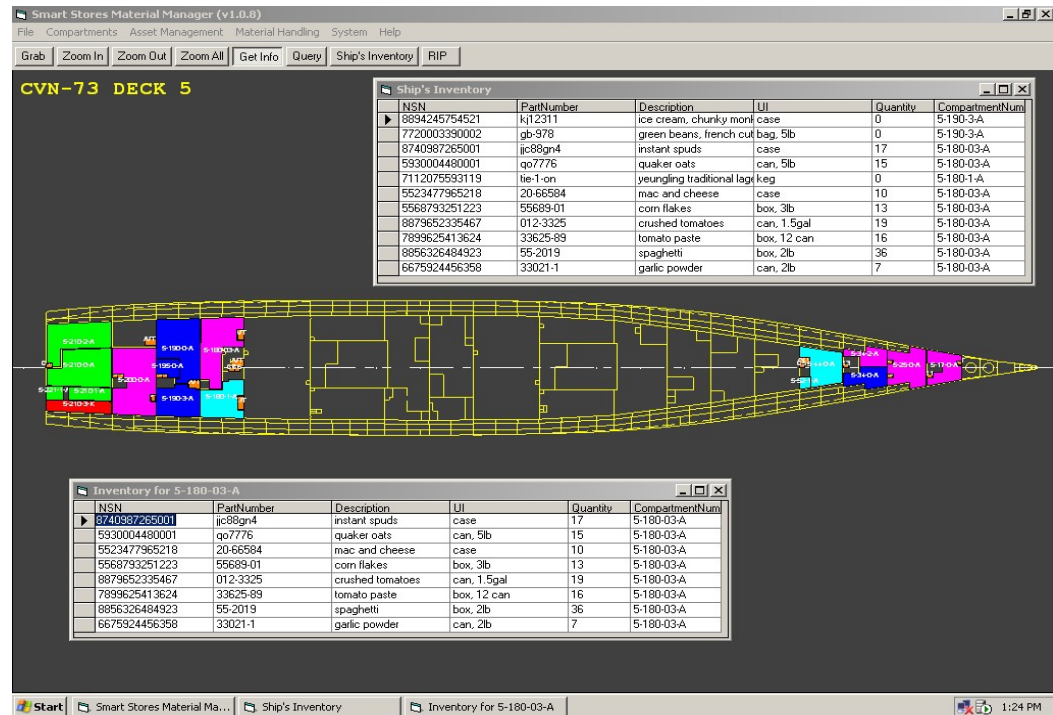
## Future Business Process



# An AIDC Outcome: Future AIDC Information Manager

## Benefits

- Asset Visibility
- Inventory Automation
- Common User Interface
- MHE Interface
- AIDC Interface
- AIS Interface
- Open Architecture
- Standards Based
- Scalable
- Real-Time



**Smart Stores**  
**Total Asset Visibility**

# ***DoD Vision for Item Marking***

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- To create a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.
- Uniquely Identification (UID) of tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.



# ***Unique IDentification (UID)***

**UID is . . .**

**. . . the set of data for tangible assets that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faceted business applications and**

**EID**

**370521**



**Original Part Number**

**1234**



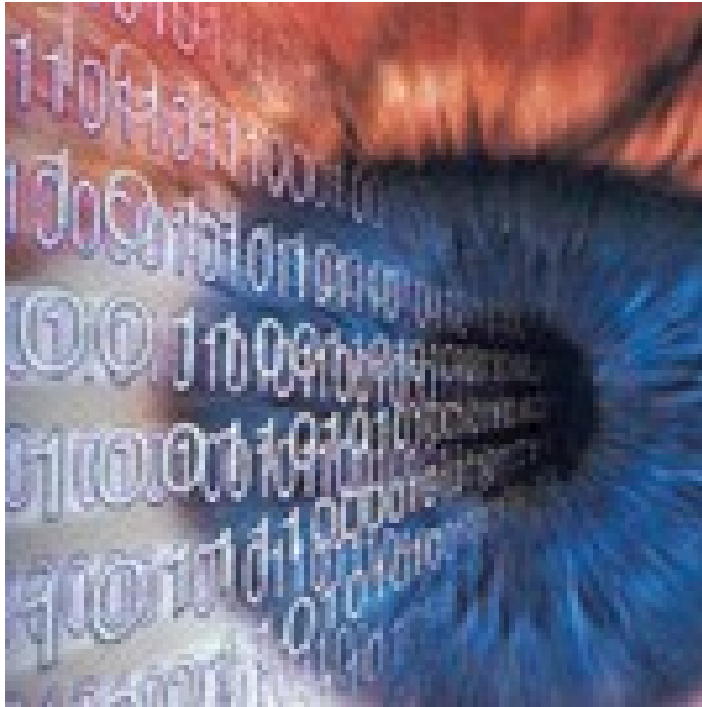
**Serial Number**

**786950**



# ***The Electronic Product Code (EPC)***

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[www.epcglobalinc.org](http://www.epcglobalinc.org)

... will make organizations more effective by enabling immediate, automatic, and accurate item identification and information sharing through a global, standardized network using passive RFID tags

each with this



# ***Web-Site Information***

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- DAU has UID overview to help you understand the vision **[www.dau.mil](http://www.dau.mil)**
- OSD website for policy and guidance **[www.acq.osd.mil/uid/](http://www.acq.osd.mil/uid/)**
- DLMS – **[www.dla.mil](http://www.dla.mil)**
- NAVSEA – **[www.cm.navsea.navy.mil](http://www.cm.navsea.navy.mil)**  
(look for the AIDC tab at the top)
- Navy AIT Project – **[www.nko.navy.mil](http://www.nko.navy.mil)**  
(select 'PAGES', 'NAVSUP', then 'Navy AIT')



# ***Summary***

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The NAVSEA AIDC Project Office and the NAVSEA AIDC Steering Group are aggressively pursuing cost-effective applications of AIDC, wherever it can be beneficially integrated into our logistics business processes and our engineering quality assurance and equipment monitoring functions.

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